

CTEH® Project #40442 West Fertilizer Plant Explosion Summary of Air Monitoring Results April 25, 2013 19:00

This data report discusses real-time air monitoring data collected between 4/25/2013 04:00 and 4/25/2013 16:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for volatile organic compounds (VOCs), ammonia (NH₃), nitrogen dioxide (NO₂), percent of the lower explosive limit (LEL) and oxygen (O₂) using remote-telemetering RAESystems[®] AreaRAEs and hand-held instruments such as the RAESystems[®] MultiRAE.

Tables 1 and 2 (below) display data summaries for hand-held and AreaRAE instruments, respectively. Site maps and charts are available as attachments.

Table 1: Hand-held Real-time Air Monitoring Summary¹ April 25, 2013 04:00 – April 25, 2013 16:00

Analyte	Instrument	Number of Readings	Number of Detections	Average of Detections	Range of Detections				
Work Area									
VOC	MultiRAE	1	0	NA	< 0.1 ppm				

¹Please note: The data displayed here has not undergone complete QA/QC analysis and is presented in a preliminary format. PPM = Parts Per Million



Table 2
Stationary AreaRAE Monitoring Stations Data Logged
4/25/2013 04:00 to 4/25/2013 16:00

4/20/2010 04:00 to 4/20/2010 10:00								
Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection			
AR13	LEL	2812	0	NA	< 1 %			
	NH3	2812	0	NA	< 1 ppm			
	NO2	2812	0	NA	< 0.1 ppm			
	02	2812	2812	20.9 %	20.9 %			
	VOC	2812	37	0.1 ppm	0.1 ppm			
AR14	LEL	2855	0	NA	< 1 %			
	NH3	2855	0	NA	< 1 ppm			
	NO2	2855	0	NA	< 0.1 ppm			
	02	2855	2855	20.9 %	20.9 %			
	VOC	2855	6	0.1 ppm	0.1 ppm			
AR16 Mobile Down Wind Unit	LEL	2858	0	NA	< 1 %			
	NH3	2858	0	NA	< 1 ppm			
	NO2	2858	0	NA	< 0.1 ppm			
	02	2858	2858	20.9 %	20.9 %			
	VOC	2858	0	NA	< 0.1 ppm			
AR17	LEL	2857	0	NA	< 1 %			
	NH3	2857	0	NA	< 1 ppm			
	NO2	2857	0	NA	< 0.1 ppm			
	02	2857	2857	20.9 %	21.2 %			
	VOC	2857	0	NA	< 0.1 ppm			
AR18	LEL	2653	0	NA	< 1 %			
	NH3	2653	0	NA	< 1 ppm			
	NO2	2653	0	NA	< 0.1 ppm			
	02	2653	2653	21.0 %	21.3 %			
	VOC	2653	0	NA	< 0.1 ppm			

¹ The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.



Appendix



Air Monitoring Zone Classifications¹ April 25, 2013

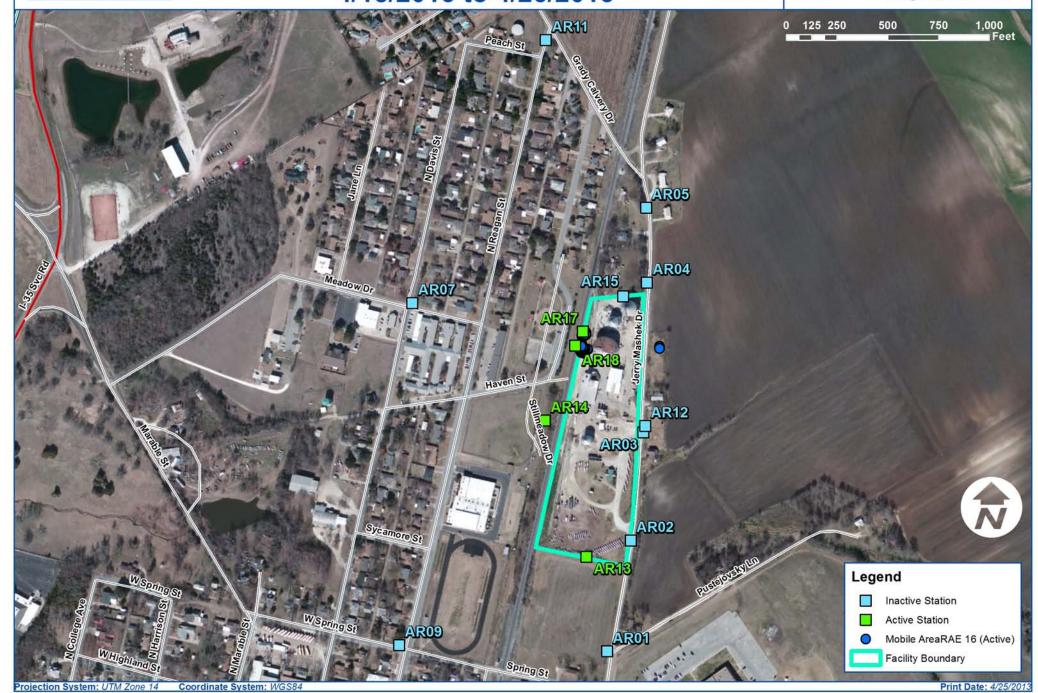
Project: 40442 Client: OMI City: West, TX County: McLennan





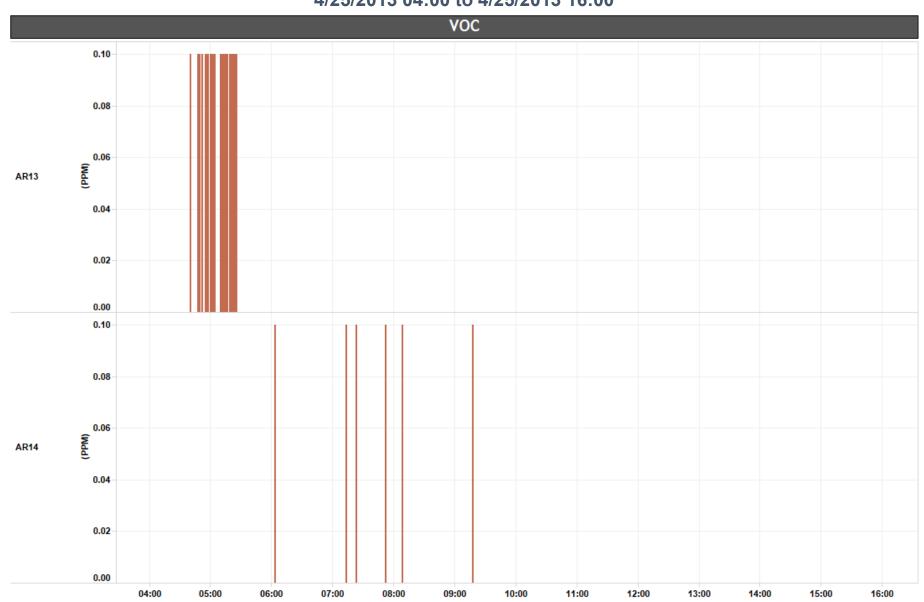
AreaRAE Monitoring Station Locations 4/18/2013 to 4/25/2013

Project: 40442 Client: OMI City: West, TX County: McLennan





AreaRAE Detections 4/25/2013 04:00 to 4/25/2013 16:00





Manually Logged VOC Real-Time Readings 4/25/2013 0:400 to 4/25/2013 16:00

Project: 40442 Client: OMI City: West, TX County: McLennan



